THE TECH

DAILY

VOL. XXIX. NO. 29. BOSTON, MASS., MONDAY, NOVEMBER 1, 1909 PRICE ONE CENT

1913 VS. TEXTILE FRESHMEN VICTORS

Score 11-0--Reverses Outcome Of Lowell Game Last Saturday

In the 1913 game Saturday against Lowell Textile at Lowell the Freshmen practically reversed the score made by the Sophomores just a week ago. Saturday's score was 11-0 in favor of 1913, while the Sophomores were defeated by a score of 15-0. It was a good game and the Freshmen showed up to good advantage.

There were two touch downs made, first by Goff and the others by Eicheron. Goff kicked a goal.

The line-up follows:

Freshmen.	Lowell Textile.
Block, Cahill, r.e.	l.e., Keough
Freman, r.t.	l.t., Middleton
Murdock, Capen, r.g.	l.g., Zoebel
Gustin, Gibson, c.	c., McCleary
Gibson, Gage, l.g.	r.g., Hassett
Beebe, l.t.	r.t., Sidebottom
Gans, l.e.	r.e., Smith, Burnham, Hale
Fallon, Duffy, q.b.	q.b., Manning
Goff, r.h.b.	l.h.b., Jefferson
Eichorn, f.b.	f.b., Harrison, Smith

Refferee—Huegin. Umpire—William. Head Linesman—Bob White. Linesmen—Brady and White. Timers—Seed and Wahl. Time—Twenty-five and twenty-minute halves.

GOLD STAMP MILL TO BE RUN TUESDAY

On Tuesday the Gold Stamp Mill will be run. The primary object of this is to give the men of Course III a conception of what a real stamp mill is, and of the various processes through which the ore goes before it is converted into bullion.

It is a two stamp mill, and is run only once a term. The men go on duty at half past eight in the morning and continue until half past three in the afternoon. Every half hour during the process the men are required to move around to a different position and each is expected to know all about that position, and thoroughly understand, the parts of the mill at which he has been stationed.

The ore is fed into the mill, the principle of which is exactly analagous to that of the pile driver. The hammer is raised by a revolving cam and then drops upon the ore. The ore, all of which has been assayed, and which is weighed before putting in, is retained in a large receptacle through which water circulates. The continual movement of the water due to the crusher, brings the loose particles of the gold at some time, to the entrance of the overflow pipe, down which they are carried by the water. This stream flows over mercury with which the gold particles amalgamate. At the end of the process the bullion is weighed and this result compared with the amount which, according to the assay value, should be present. This comparison gives the percentage of extraction.

The list of men and their assignments will be posted on the bulletin board.

Several committees have been appointed at Princeton to investigate the regulation of student affairs. The same conditions are prevailing as there were at Tech before last year. Many students have assumed too many social responsibilities at the expense of their studies.

The point system which the Institute has adopted is securing careful attention, although nothing definite has been done as yet.

TECHNOLOGY EXHIBIT IN 1915 EXPOSITION

Takes Prominent Part In Both Educational And Church Features

The Boston 1915 Exposition opens today in the old Art Museum building. Technology will be well represented with the largest exhibit among educational institutions.

The Institute exhibit is under the direction of Prof. C. F. Park, assisted by Dean A. E. Burton and Prof. Harry W. Gardner. This committee has arranged table exhibits of apparatus, drawings and students' work, showing the results of research work Photographs of the buildings and equipment, together with charts indicating the growth of the Institute in the last 25 years will be displayed.

Besides its exhibition in the Art Museum, the engineering laboratories in the Engineering and Pierce buildings, and the electrical engineering laboratory in the Lowell building will be open two nights each week.

A number of instructors will be in the laboratories to explain apparatus and to take charge of the tests which will be made on a number of machines. Students will also be present to serve in conducting the visitors through the various rooms. Tickets to the laboratories may be obtained at the exhibit space in room 23 of the main floor.

This exhibit should serve to bring the Institute before the public and to advertise its special advantages and the work it is doing. The showing will be both interesting and instructive.

Technology men have also assisted in the church exhibit. Several of the men, together with girls from Simmons and Emerson Colleges, have aided in the preparation of moving pictures illustrating the influence of the Christian church in history.

The work is under the charge of Dr. O. B. Denison, pastor of the Central Congregational Church and consists of four scenes. The first series shows Ambrose the bishop stopping the Roman Emperor, Theodosius, at the church entrance and forcing him to assume the garb of a penitent because of his crimes. Another is called the charity scene and depicts the distribution of alms by the church. A third represents the court of Charlemagne, in which he, the powerful sovereign, offers his throne to Alquin, the head of the church university. The last film shows the Knight Templars rescuing a party from the Moslems.

AT THE THEATRES

Park—"A Gentleman from Mississippi." 8 P. M. Matinee at 2.

Colonial—Elsie Janis in the "Fair Coed." 8 P. M. Matinee at 2.

Boston—"Three Twins." 8 P. M. Matinee at 2.

Majestic—"The Rose of Algeria." 8 P. M. Matinee at 2.

Hollis—"A Woman's Way." 8:15 P. M. Matinee at 2.

Tremont—"The Love Cure." 8 P. M. Matinee at 2.

Globe—"The Blue Mouse." 8 P. M. Matinee at 2.

Castle Square—"A Parisian Romance." 8 P. M. Matinee at 2.

Boston Opera House—"Li Gioconda" (in Italian). Nov. 8. 7:45. "Aida" (in Italian). Nov. 10. 8 P. M. "Lakme" (in French). Nov. 11. 8 P. M. "La Boheme" (in Italian). Nov. 12. 8 P. M. "Lakme" (in French). Nov. 13. 2 P. M. "Aida" (in Italian). Nov. 13. 8 P. M.

Keith's—Vaudeville. 8. P. M. Matinee 2.

American—Vaudeville. 8 P. M. Matinee at 2.

PRIZE SHOOTING AT WAKEFIELD RANGE

Capt. H. R. Wilbur Breaks Record--More Men Qualify For N. R. A. Buttons

Capt. Harold R. Wilbur 1910, of the M. I. T. Rifle Club, broke the record in match A of the club at the weekly shoot at the Wakefield ranges yesterday afternoon with a total of 67 on the 200-300 and 500-yard ranges. Regulations for match A are two sighting shots and five shots for record, and the best scorer of the season is given a bronze medal.

Ralph A. Smead 1910, also made a score of 67 in match C for new men. His totals on the 200, 300 and 500-yard ranges were respectively 21, 22, 24. Wilbur shot as follows: 22, 23, 22.

These scores are considered good under the conditions, a variable cross-wind blowing over the range throughout the shoot. The following new men qualified for the buttons given by the National Rifle Assocation for work on the three ranges: Henry D. Kemp 1911, 19, 19. 19; R. A. Smead 1910, 21, 22, 24; R. T. Portal 1913, 18, 15, 22; and J. G. Rudolph 1913, 15, 16, 22. The shoot for the open competition medal of the National Rifle Association to have been held yesterday by the Tech Club, has been postponed until next Saturday.

SUMMER RESEARCH

Assistant In Physics Measures Film Thickness In Bearings

Investigations completed in the Mechanical Engineering Laboratories during the spring and summer by Mayo D. Hersey, '09, were the outgrowith of meeting the usual problems of journal friction on an occasion of machine construction some time before, and of considering them theoretically in 1908. Mathematical analysis made possible an electrical method of measuring the actual thickness of the oil film at the point of nearest approach of brass to journal.

The question of journal friction is one of the most fundamental, and at the same time the most complex and baffling, with which engineers have had to deal. Logically there should be two methods of attack: first, to investigate the conditions of minimum friction in bearings already built; second, by investigations of the seizing point, to determine better rules for design. Curiously, past experiments have been confined to the first method, although the second would seem the more fruitful. For, while it is the problem of the operating engineer to select the best lubricant, the designer has to decide the more vital question of how many pounds load to allow per square inch. And if, by good judgment, the former may reduce the friction a few per cent., the latter by his dimensioning of the bearing, canmultiply or divide the friction by hundreds of per cent.

Hersey believed that, without producing actual "hot-boxes," investigations of load-carrying power might be made which would yield information designers are waiting for. The designer must strike a compromise between long bearings, with excessive friction, and short bearings, with concentrated load. Usually the allowable pressure, or carrying power, has been limited by heating, and assumed to vary inversely with speed, resulting in low efficiency at high speeds. But experiments in Germany have recently shown how to escape the

(Continued on page 3.)

SOPHOMORES LOSE TO EXETER; SCORE 10-0

Robinson Makes 40-Yd. Run Prep. School Much Heavier

Exeter succeeded in crossing the sophomores' goal twice in a hard fought game last Saturday. One touchdown was made in each half, both being made on intercepted forward passes.

In the first half 1912 punted on its 20 yard line, Exeter fumbled the ball, Robinson recovered it and ran it down the field for forty yards, until downed on Exeter's 15 yard line by Cornell—Exeter's 10 second man. This was the most spectacular event in the game.

Toward the end of the first half Exeter scored on an intercepted forward pass when the whistle blew, but failed to kick the goal. In the second half Exeter made another touchdown on a forward pass.

Barnes made consistent gains through the line and Torrey and Robinson excelled on the defense. Although much heavier than the sophomores, Exeter was unable to gain through the line or around the ends, but was forced to punt or use the forward pass.

Contrary to expectations, Exeter played her regular team, with the exception of three men. It was the cleanest game the sophomores have played this year and the members of the team are enthusiastic over their reception by the Exeter men.

The lineup:—

Exeter	1912
Gillis, l.e.	r.e., Torrey
Holbrook, l.t.	r.t., Swanson
Cooney, l.g.	r.g., Shuttleworth
Cody, c.	c., Whittlesey
Mitchell, r.g.	l.g., Robertson
Kirkpatrick, r.t.	l.t., Stickney, Kimball
Faulkner, r.e.	l.e., Robinson
O'Brien, q.b.	q.b., Eicher
Wilson, l.h.b.	r.h.b., Roberts
Pierson, r.h.b.	l.h.b., Raymond, McOscar
Cornell, f.b.	f.b., Barnes

Score—Exeter, 10; M. I. T. 1912, 0. Head linesman—Kebbon.

IMPORTANT GOLF CLUB MEETING AT 1 O'CLOCK

There will be an important meeting of the Golf Club in Room 22 Rogers Building at 1.00 P. M. today. The purpose of this meeting is to make arrangements for a tournament as soon as practicable. The club held its first meeting on October 12. W. C. Salisbury 1911 was the only man at the Institute who remained from last year's team, so that most of the planning and organization has fallen to him.

At a subsequent meeting the question of the links which would be used came up, and it was then decided that as soon as this point was arranged satisfactorily that a tournament would be held if possible. There will be a team chosen from the members of the club which will probably play the various college teams near here. It is very urgent that all members report at this meeting, since the question is an important one and the co-operation of the entire club will be required. This tournament will have a great deal to do with the choice of the team, so that enough men should report to make some competition.

Today is the only day left in which to raise the $500,000 for the Y. M. C. A. Everybody help!

THE TECH.

Published daily except Sunday during the college year by students of the Massachusetts Institute of Technology.

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ANNOUNCEMENT.

With this issue The Tech starts a new feature, The Hornet's Nest. A little explanation of the purposes, methods, and "raison d'etre" of this department may not be amiss.

For some time there has been a feeling that the newspaper style did not completely satisfy the wants and needs of the Institute. Something was needed aside from the cold facts to create a better understanding between all concerned by occasionally showing up matters in a manner not strictly the prim and proper news fashion. In many other colleges, the monthly accomplishes this purpose. Here, however, there is neither the time nor the desire to get out a monthly, so the present vehicle has been evolved. It makes its bow with but scant introduction, and with no promises to the future. Its mission, if it be found to have one, should be apparent as the papers come out. The present effort has much in common with an old department in The Tech known as "The Lounger." It has, however, more latitude, a rather different viewpoint, and new blood.

Several fellows gathered together in a suite are taken as the types thoroughly representative of Tech life. They are the ones that bring up all sorts of ideas, and their chronicler sets them before us all to make as much of as possible. Although these discussions will be published as frequently as possible to avoid demoralizing breaks in the sequence, quality is the first consideration and therefore no definite regularity is promised.

To insure the liveliness of these murmurings the authorship is not given. It might be well to say, however, that they are the result of the buzzings of more than three years' experience at Tech. It is hoped that all stinging as well as praising will be taken in the proper spirit, as they will be given to one and all with nothing but the best intentions.

In order to prevent narrowness in the Nest, it is hoped that all will co-operate in working for a better Tech spirit by sending in comments, criticisms and suggestions. Address the same to The Hornet's Nest, care of The Tech, and they will be given careful consideration.

With a positive and final statement that the new institution is not the authorship of any member of The Tech board, we launch forth the Hornets.

President Taft's trip down the Mississippi ended Saturday morning when he arrived at New Orleans, where he was enthusiastically welcomed.

THE HORNET'S NEST

Well, we're back. Furthermore, we're settled: no big excitement to look forward to now but Christmas. Of course there's Field Day, which "day," however at the Massachusetts Institution for the Alleviation of Adolescent Ignorance consists of the afternoon, and then Thanksgiving when we have time out for dinner; but generally speaking, we're settled to work, petitions through, outfits renewed and quarters in order.

Speaking of quarters, we must record our continuance of abode at Mrs. Wilham's on St. Bugstone Street. Joe and I are for the fourth year living as "man and wife" in the large room in the second floor rear. The abundance of room, the cozy furnishings and above all, the cheerful wood fire, have already given promise of making our room the general headquarters of the fellows in the house. And, furthermore, to judge by the meetings already held, the place will be more of a "Cradle of Liberty" than Exchange Bureau for the Rocking Chair Fleet. As Binks says, the meetings have "some class."

But let me briefly outline the personnel of the house ere I prepare my Static Graphics. Mrs. Wilham at present is harboring six rather typical specimens of M. I. A. A. A. student. We live under the one roof, eat at the one table and Mrs. W. will tell you we "haze" in the one room, and that the second floor rear

First there is Jack and I. We have stuck together at the 'Stute 'til this our senior year, and live in harmony beautiful to see, despite the marked difference in our respective make-ups. I suppose I've pulled more "C's" during the past three years than has Jack, but that's about as far as I carry the honors. Jack has been prime moved from the start. He made the speech that woke up the Freshmen at the first meeting of our class, and it has been he who has done much to keep the ball rolling since, both by action and word. Whenever duty or excitement has called Jack has been first to answer.

Across the hall is Horace Homer, a new fellow who graduated last Spring from the University of Cadonia. He rooms alone and already seems like an old-timer. He is all kinds of fun, and as he seems to find much to admire in Jack, he spends all of his spare time in our room. Although Cad's Alma Mater is always foremost in his mind, he gives promise of being a splendid foster-son of the 'Stute.

Overhead is another "couple," although we hear only one person. Sam Binks makes himself known through the floor when he arises and retires. A large part of the remaining interval he is on the divan in the room below. Same is now commencing his sixth year at the Institute, and is still pursuing second year Physics, while the latter seems little tuckered out. Sam doesn't wear a little green bow in his buttonhole, but he does wear a smile on his countenance that is irresistable. Irresistable to all but his room-mate, who finds time two or three times a week to go elsewhere for his smiles. "Cupid," by which cognomen Wellesley S. Radcliffe is commonly known, is what is popularly termed a "fusser." Well, he's a Course IV. man with his evenings free, so I suppose he has a legitimate right to be. His hands are never subjected to any more harrowing indignities than color rendering, and hence it is possible for them to always present an irreproachable appearance. As he is as clever in his speech and "fetching" courtesies as he is with pen and brush, it is not surprising that Cupid is a favorite with the ladies.

Across the house from the Billiken-Cupid apartment lives the future composite of Samuel Johnson, Daniel Web-

(Continued on page 3.)

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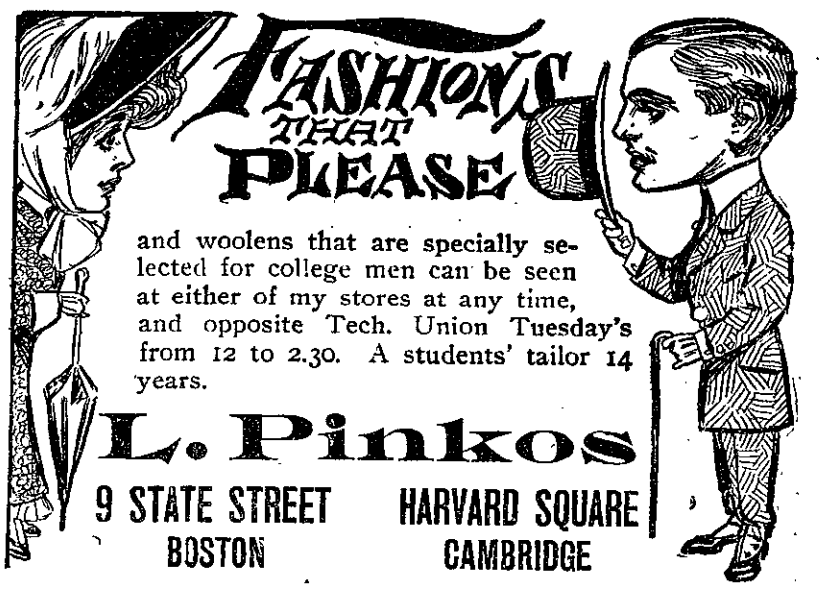

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CALENDAR.

Monday, November 1.
1:00 P. M.—Golf Club Meeting. 22 Rogers.
4:15 P. M.—Relay Practice at Field.
4:15 P. M.—Tug-of-War at Gym.
4:30 P. M.—Mandolin Club Rehearsal.
Tuesday, November 2.
4:15 P. M.—Banjo Club Rehearsal.
Thursday, November 4.
4:15 P. M.—Banjo Club Hehearsal.
Friday, November 5.
2:00 P. M.—1912 vs 1913 at Field.
8:00 P. M.—"Tech Night" at Colonial.
Saturday, November 6.
2:00 P. M.—Orchestra Rehearsal in Union.
2:00 P. M.—Nominations for 1912 Baseball Manager Close.

SUMMER RESEARCH

(Continued from page 1.)

heating difficulty, so there is now demanded a new criterion for design.

This research shows that such a criterion may be found in the compressibility of the oil film. By precise measurements of all thicknesses of film from two-thousandths of an inch down to one millionth, the laws of variation of carrying power with speed, load, and state of lubrication were determined, verifying theoretical expectations and indicating the possibility of better efficiency in certain types of high speed machinery.

The effect upon the co-efficient of friction, and upon lost work, and upon the rate of heating, of variations in speed, load, rate of feed, method of lubrication, temperature, and viscosity of lubricant were also studied over a wide range, five hundred tests being run, all told.

Trinity Court Petit Lunch

Monday, November 1, 1909.

Baked Chicken Halibut au gratin
Corned Beef and Cabbage
Beef Pot Roast a la Printaincere
Minced Chicken a la Reine
Roast Ribs of Beef Roast Lamb
Compote of Fruit, Port Wine Sauce.
Pastry or coffee
20 cents

THE HORNET'S NEST

(Continued from page 2.)

ster, Lord Kelvin and C. Cross. His name is Lyman Quince. He hails from somewhere down East, and has the feeling that he is responsible for the acquisition of erudition for his entire county. In plain parlance, he is a grind. "Quincy" means well enough, and probably has some red blood in his body, even though it be well subjugated. On those occasions when he appears at the meetings in our room he seems capable of conversing along pretty general lines, but in the classroom his conversational effort is said to be limited to the one infernal question: WHY?

Such are Mrs. Wilham's students. Diversant individually, yet homogenous collectively, they are essentially a representative group of fellows. Every one of them, including myself, has his own ideas on various subjects, but what is more, everyone expresses those ideas, and where the most opposition to agreement is shown, there is the most emphasis laid. And the very diversity of our ideas I think, renders our talks the more profitable to all concerned.

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Investors in this purchasing fund have the option of withdrawal of principal before maturity. A strong National Bank has agreed to act as Trustee of this fund for and on behalf of investors—to see that it is kept intact and used only as a purchasing fund. This bank will pay dividends as they fall due and will return to any certificate holder, upon sixty days' notice, the amount of his investment or any part of it, should he desire to withdraw same at any time before maturity.

The total issue is only $25,000, each certificate being for $25. For the present, with each $25 certificate is given one share of 8 per cent. preferred stock, par value $10; and with each $100 purchase five shares of preferred are given. This unusual opportunity really brings the net return up to about 12 per cent., with the prospect of selling the preferred for nearly enough to pay for the whole investment. We make this offer so that it will not be necessary for this announcement to appear extensively, as previous issues have been largely oversubscribed.

If interested in absolute security of principal, large and definite interest return, and opportunity of speedy withdrawal of principal before maturity if desired, this investment should receive your immediate attention. Communications and orders should be addressed, and checks made payable to,

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GENERAL NOTICES.

GOLFERS ATTENTION! There will be a meeting of the Golf Club at 1 P. M., Monday in 22 Rogers, to discuss arrangements for holding a tournament. 27, 28, 29

Men selling Tech Night theater tickets are now in all corners and years. Get your exchange ticket early.

1912 THEATER COMMITTEE.

FOUND.—Many books and other valuable articles found about the Institute remain in The Tech office, unclaimed by their owners, whose names were published in a recent issue of The Tech. It is desired that these men call and claim their property.

The Women's Society of the Temple Israel will give a dance on Nov. 22 to the Jewish students in the schools and colleges in and around Boston, to all who leave their names before Nov. 6 with the president's assistant in 10 Rogers. 29,31,33

FACULTY NOTICES.

FRENCH II, Sestion 5, 15 a. b. On Wednesday this section will recite hereafter in room 31 Lowell, instead of in room 29 Lowell.

THIRD YEAR APPLIED MECHANICS.

First exercise for Course X. Monday, Nov. 1, at 10 o'clock in Room 21, Eng. A. Bring Lanza's Applied Mechanics.

W. A. JOHNSTON.

1910—All books for Tech Show are due at 4 P. M. today. Author's name to be in sealed numbered envelope and turned in at the Cage with book for K. Greenleaf, Stage Manager.

1911-1910.—Juniors and Seniors can obtain theatre tickets for Tech Night from D. E. Bent, in Rogers' corridor, daily from 1:00 until 1:0.

1912—Sophs get busy. Go to the Field in the '12 Buzz Wagon. H. W. Hall, J. H. Senaerts, at the Union between 1 and 2 Monday or Tuesday.

C. F. HOVEY, 33 Summer Street

MEN'S HANDKERCHIEFS
Men's all linen, hand embroidered initial handkerchiefs; sold in boxes containing 1-2 dozen each. Reduced from $3.00 per dozen, to $2.50

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Rowan & Curry.
M. J. Hannigan.

BANKING HOUSES.
National Shawmut Bank.
State Street Trust Co.

BOOKSTORE.
Old Corner Bookstore.

CIGARETTES.
Fatima.
Tasha.

CONFECTIONERY.
Apollo Chocolates.

ENGINEERS.
Stone & Webster.

GLOVES.
Miss Fiske.
Fownes.

HARDWARE.
Wardsworth & Howland.

HATTERS.
Collins & Fairbanks.
Sphinx.

HOTELS.
Hotel Brunswick.
Hotel Cumberland.

JEWELERS.
Bent & Bush.

MEN'S FURNISHINGS.
Arrow collars.
Boston Garters.
Collins & Fairbanks.
C. F. Hovey & Co.
Ely Meyer & M. C. Simon.
Jordan & Marsh.
Macullar Parker.
Noyes Bros.
Shuman & Co.

PRINTERS.
Geo. H. Ellis.

RESTAURANTS.
Copley Lunch.
Lombardi Inn.
Petit Lunch.
Preston's Coffee House.
A. G. Cotton.

SHOES.
McMorrow.

SPORTING GOODS.
A. G. Spalding.

STATIONERS.
Faber Pencils.
Maclachlan.
Moores Pens.

THEATER TICKETS.
Herrick.

TYPEWRITING.
Miss Sawyer.

TAILORS.
Ely Meyer & M. C. Simon.
Morse & Henderson.
Patten.
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